AC-04-90
Program/Major or Minor/Concentration Revision Form

(09/2003)

1.0 Degree Title
Specify the two degrees for concurrent degree programs

B.Sc.

1.1 Major (Legacy= Subject) (30-char. max.)

Joint Major in Physiology and Mathematics

1.2 Concentration (Legacy = Concentration/Option) If applicable (30 char. max.)

1.3 Minor (with Concentration, if applicable) (30 char. max.)

1.4 Category

- ☐ Faculty Program (FP)
- ☐ Major
- ☒ Joint Major
- ☐ Major Concentration (CON)
- ☐ Minor
- ☐ Minor Concentration (CON)
- ☐ Honours (HON)
- ☐ Joint Honours Component (HC)
- ☐ Internship/Co-op
- ☐ Thesis (T)
- ☐ Non-Thesis (N)
- ☐ Other

Please specify

1.5 Complete Program Title

Joint Major in Physiology and Mathematics

2.0 Administering Faculty/Unit

Science

Offering Faculty/Department

Mediicine/Physiology

3.0 Effective Term of revision or retirement
Please give reasons in 8.0"Rationale" in the case of retirement (Ex. Sept. 2004 = 200409)
Term

Sept. 2005

4.0 Existing Credit Weight

77 credits

Proposed Credit Weight

77 credits

5.0 Description (Maximum 150 words)

Splitting of spanned courses PHGY 212D1 and D2 into PHGY 212 Fall and PHGY 231 Winter.

6.0 List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

See below

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

See below

6.0 (Continued) List of existing program and proposed program

Existing program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

Joint Major in Physiology and Mathematics (77 credits)

U1 Required Courses (14credits)

PHGY 212D1	***(1)***	***Introductory Physiology Lab***
PHGY 212D2	***(1)***	***Introductory Physiology Lab***
MATH 222	(3)	Calculus III
MATH 247	(3)	Linear Algebra
or MATH223	(3)	Linear Algebra
BIOL 200	(3)	Molecular Biology
BIOL 309	(3)	Mathematical Models in Biology

U1 Complementary Courses (15 credits)
9 credits selected from:

BIOL 201	(3)	Cell Biology and Metabolism
or BIOC 212	(3)	Molecular Mechs. of Cell Function
PHGY209	(3)	Mammalin Physiology I
and PHGY 210	(3)	Mammalin Physiology II
or PHGY 201	(3)	Human Physiology: Control Systems
and PHGY 202	(3)	Human Physiology: Body Functions

6 credits selected from:

MATH 248	(3)	Advanced Calculus I
or MATH 314	(3)	Advanced Calculus
MATH 325	(3)	Ordinary Differential Equations
or MATH 315	(3)	Ordinary Differential Equations

U2 Required Courses (24 credits)

MATH 242	(3)	Analysis I
MATH 243	(3)	Real Analysis
MATH 323	(3)	Probability Theory
MATH 326	(3)	Nonlinear Dynamics and Chaos
PHGY 311	(3)	Intermediate Physiology I
PHGY 312	(3)	Intermediate Physiology II
PHGY 313	(3)	Intermediate Physiology III
PHGY 314	(3)	Integrative Neuroscience

U2 or U3 Required Courses (6 credits)
MATH 437 (3) Mathematical Methods in Biology
PHYS 413 (3) The Physical Basis of Physiology

U3 Required Courses (18 credits)

BMDE 519	(3)	Analysis of Biomedical Systems & Signals
MATH 319	(3)	Partial Differential Equations
MATH 324	(3)	Statistics
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology

Proposed program (list courses as follows: Subj Code/Crse Num, Title, Credit weight, under the headings of: Required Courses, Complementary Courses, Elective Courses)

Joint Major in Physiology and Mathematics (77 credits)

U1 Required Courses (14credits)

PHGY 212	***(1)***	***Introductory Physiology Lab I***
PHGY 213	***(1)***	***Introductory Physiology Lab II***
MATH 222	(3)	Calculus III
MATH 247	(3)	Linear Algebra
or MATH223	(3)	Linear Algebra
BIOL 200	(3)	Molecular Biology
BIOL 309	(3)	Mathematical Models in Biology

U1 Complementary Courses (15 credits)
9 credits selected from:

BIOL 201	(3)	Cell Biology and Metabolism
or BIOC 212	(3)	Molecular Mechs. of Cell Function
PHGY209	(3)	Mammalin Physiology I
and PHGY 210	(3)	Mammalin Physiology II
or PHGY 201	(3)	Human Physiology: Control Systems
and PHGY 202	(3)	Human Physiology: Body Functions

6 credits selected from:

MATH 248	(3)	Advanced Calculus I
or MATH 314	(3)	Advanced Calculus
MATH 325	(3)	Ordinary Differential Equations
or MATH 315	(3)	Ordinary Differential Equations

U2 Required Courses (24 credits)

MATH 242	(3)	Analysis I
MATH 243	(3)	Real Analysis
MATH 323	(3)	Probability Theory
MATH 326	(3)	Nonlinear Dynamics and Chaos
PHGY 311	(3)	Intermediate Physiology I
PHGY 312	(3)	Intermediate Physiology II
PHGY 313	(3)	Intermediate Physiology III
PHGY 314	(3)	Integrative Neuroscience

U2 or U3 Required Courses (6 credits)
MATH 437 (3) Mathematical Methods in Biology
PHYS 413 (3) The Physical Basis of Physiology

U3 Required Courses (18 credits)

BMDE 519	(3)	Analysis of Biomedical Systems & Signals
MATH 319	(3)	Partial Differential Equations
MATH 324	(3)	Statistics
PHGY 461D1	(4.5)	Experimental Physiology
PHGY 461D2	(4.5)	Experimental Physiology

7.0 Consultation with Related Units ☐ Yes ☐ No **Financial Consult** ☐ Yes ☐ No

Attach list of consultations.

8.0 Rationale

The splitting of spanned term course PHGY 212D1 and D2 into PHGY 212 Fall and PHGY 213 Winter.

9.0 Approvals

Routing Sequence	Name	Signature	Date
Department	Dr. E. Cooper		
Curric/Acad Committee			
Faculty 1			
Faculty 2			
Faculty 3			
SCTP			
GS			
APPC			
Senate			

Submitted by

Name	Sonia Viselli
Phone	3689
Email	Sonia.viselli@mcgill.ca
Submission Date	December 10. 2004

To be completed by ARR:

CIP Code